CONTENTS OF PREVIOUS VOLUMES

VOLUME 1

Parametric Processes: A. YARIV and J. E. PEARSON
Light Propagation and Light Shifts in Optical Pumping Experiments: W. HAPPER
Non-Resonant Feedback in Lasers: R. V. AMBARTSUMYAN, N. G. BASOV, P. G. KRYUKOV and V. S. LETOKHOV
The Semiclassical Theory of the Gas Laser: S. STENHOLM
Laser Lines in Atomic Species: C. S. WILLETT

VOLUME 2

Photon Counting and Photon Statistics: G. J. TROUP
Nonlinear Spectroscopy of Molecules: K. SHIMODA and T. SHIMIZU
Collision Broadening of Spectral Lines by Neutral Atoms: W. R. HINDMARSH and J. M. FARR
Quantum Theory of Josephson Radiation: D. ROGOVIN, M. O. SCULLY and P. LEE

VOLUME 3

Three-level Gas Systems and Their Interaction with Radiation: I. M. BETEROV and V. P. CHEBOTAEV
Mode-locking of Lasers: P. W. SMITH, M. A. DUGUAY and E. P. IPPEN
The Quantum Theory of the Laser: A. P. KAZANTSEV and G. I. SURDUTOVICH

VOLUME 4

Self-focusing: Experimental: Y. R. SHEN
Self-focusing: Theory: J. H. MARBURGER
Nonlinear Narrow Optical Resonances Induced by Laser Radiation: V. P. CHEBOTAYEV and V. S. LETOKHOV
Far-infrared Generation by Optical Mixing: Y. R. SHEN
The Argon Ion Laser: M. H. DUNN and J. N. ROSS
Infrared Dispersions of Third-Order Susceptibilities in Dielectrics: Retardation Effects: CHR. FLYTZANIS and N. BLOEMBERGEN
Applications of the Josephson Effects: R. P. GIFFARD, J. C. GALLOP and B. W. PETLEY

VOLUME 5

Third-Order Optical Susceptibilities of Liquids and Solids: R. W. HELLWARTH
Irreducible Components of the Density Matrix Application to Optical Pumping: ALAIN OMONT
Selective Photoionization of Atoms by Laser Radiation and its Application: V. S. LETOKHOV, V. I. MISHIN and A. A. PURETZKY
The Spin-Flip Raman Laser: S. D. SMITH, R. B. DENNIS and R. G. HARRISON

VOLUME 6

Excimer Lasers: M. J. SHAW
High Intensity Raman Interactions: A. PENZKOFER, A. LAUBEREAU and W. KAISER
Electron-Hole Liquids in Semiconductors: A. A. ROGACHEV
Microwave Multiphoton Processes in Highly Excited Atoms: J. E. BAYFIELD
Molecular Infrared Lasers Using Resonant Laser Pumping: A. Z. GRASIUK, V. S. LETOKHOV and V. V. LOBKO

VOLUME 7

CARS Spectroscopy: S. A. J. DRUET and J.-P. E. TARAN
Free-Electron Lasers and Multiphoton Free–Free Transitions: M. V. FEDOROV
The Importance of Spectroscopy for Infrared Multiphoton Excitation: W. FUSS and K. L. KOMPA
Dye Lasers: L. G. NAIR

VOLUME 8

Nonlinear Optical Effects Associated with Excitonic Molecules in Large Gap Semiconductors: D. S. CHEMLA and A. MARUANI
Collisional Broadening of Nonlinear Optical Resonances: V. P. CHEBOTAYEV and L. S. VASILENKO
Laser Cooled and Trapped Atoms: W. D. PHILLIPS (Ed.)

VOLUME 9

Electron Theory of the Optical Properties of Laser Excited Semiconductors: H. HAUG and S. SCHMITT-RINK
The Physics of Phase Conjugate Mirrors: M. C. GOWER
Properties of Doped Silicon and Germanium Infrared Detectors: N. SCLAR
Nitrogen Lasers: R. S. KUNABENCHI, M. R. GORBAL and M. I. SAVADATTI

VOLUME 10

The Magnetophonon Effect: R. J. NICHOLAS
The Photorefractive Effect — A Review: T. J. HALL, R. JAURA, L. M. CONNORS and P. D. FOOTE
Pulsating Instabilities and Chaos in Lasers: R. G. HARRISON and D. J. BISWAS
Spectral Control of Gain-Switched Lasers by Injection-Seeding: Application to TEA CO_2 Systems: D. M. TRATT, A. K. KAR and R. G. HARRISON

VOLUME 11

Ring Lasers: J. R. WILKINSON
Recent Advances in the Physics of Silicon P–N Junction Solar Cells Including Their Transient Response: S. C. JAIN, E. L. HEASELL and D. J. ROULSTON
Photoelectromagnetic Effect in Semiconductors and its Applications: M. NOWAK

VOLUME 12

Photo-initiated Deposition and Etching of Materials Relevant to Semiconductor Devices: J. HAIGH and M. R. AYLETT
Intrinsic Infrared Detectors: A. ROGALSKI and J. PIOTROWSKI
Solid State Lasers: A. PENZKOFER

VOLUME 13

Resonance and Saturation in Multiphoton Bound-Free Transitions: M. V. FEDOROV and A. E. KAZAKOV
Photoacoustic and Electroacoustic Properties of Semiconductors: P. M. NIKOLIĆ and D. M. TODOROVIĆ
$InAS_{1-x}Sb_x$ Infrared Detectors: A. ROGALSKI
Transport Equations and Ramo's Theorem. Applications to the Impulse Response of a Semiconductor Detector and to the Generation — Recombination Noise in a Semiconductor Junction: W. DABROWSKI
Above Threshold Ionization: N. B. DELONE and M. V. FEDOROV
$Hg_{1-x}Zn_xTe$ as a Potential Infrared Detector Material: A. ROGALSKI